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Appl. No. 10/624,829  
Amdt. dated July 10, 2006  
Reply to Office Action of May 18, 2006

## AFTER FINAL EXPEDITED PROCEDURE

This listing of claims replaces all prior versions, and listings of claims in the instant application:

Listing of Claims:

1. (Currently Amended) A method for providing redundancy and recovery for a first memory device designated primary by utilizing a second memory device designated backup, the method comprising:

copying contents of the primary memory device to the backup memory device at specified intervals;

detecting an uncorrectable error in data received from or sent to the first memory device designated primary;

switching the designation of the first memory device from primary to backup and the designation of the second memory device from backup to primary in response to said detecting;

testing the memory device now designated backup after said switching;

marking pages or parts of the memory device now designated backup as bad if said testing so indicates; and

notifying thea control system that the memory device now designated backup is bad if said testing so indicates.

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

GUNNISON, MCKAY &  
HODGSON, L.L.P.  
Green West Office Plaza  
1900 Garden Road, Suite 220  
Menlo Park, CA 94025  
(415) 655-0888  
Fax: (415) 655-0888

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6. (Previously Presented) An apparatus for providing memory redundancy and recovery in a system including a first memory device designated primary and a second memory device designated backup, the apparatus comprising:

a memory device contents copier coupled to said first memory device designated primary and to said second memory device designated backup;

an interval specifier coupled to said memory device contents copier;

an uncorrectable error detector coupled to said first memory device designated primary and said second memory device designated backup;

a memory device designation switcher coupled to said uncorrectable error detector;

a switched memory device tester coupled to said first memory device designated primary and to said second memory device designated backup;

a tested-bad memory device page or part marker coupled to said switched memory device tester;

a memory device in-service placer coupled to said tested-bad memory device page or part marker; and

a tested-bad memory device notifier coupled to said switched memory device tester.

7. (Previously Presented) The apparatus of claim 6, further including a boot-time memory device designator coupled to said first memory device designated primary and to said second memory device designated backup.

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

GUNNISON, MCKAY &  
HODGSON, LLP  
Gardner West Office Plaza  
1900 Geneva Road, Suite 220  
Monterey, CA 91960  
(81) 655-0888  
Fax (81) 655-0888

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11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Currently Amended) An apparatus for providing redundancy and recovery for a first memory device designated primary by utilizing a second memory device designated backup, the apparatus comprising:

means for copying contents of the primary memory device to the backup memory device at specified intervals;

means for detecting an uncorrectable error in data received from or sent to the first memory device designated primary;

means for switching the designation of the first memory device from primary to backup and the designation of the second memory device from backup to primary in response to said detecting;

means for testing the memory device now designated backup after said switching;

means for marking pages or parts of the memory device now designated backup as bad if said testing so indicates; and

means for notifying the control system that the memory device now designated backup is bad if said testing so indicates.

16. (Cancelled)

17. (Cancelled)

GUNNISON, MCKAY &  
HODGSON, L.L.P.  
Gordon and Breach  
1700 Gordon Road, Suite 220  
Menlo Park, CA 94025  
(415) 321-0330  
Fax (415) 321-0330

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18. (Cancelled)

19. (Cancelled)

20. (Previously Presented) A system for providing memory redundancy and recovery, the system comprising:

a first memory device designated primary;

a second memory device designated backup;

one or more processors coupled to said first memory device designated primary and to said second memory device designated backup;

an operating system including:

a memory device contents copier coupled to said first memory device designated primary and to said second memory device designated backup;

an interval specifier coupled to said memory device contents copier;

an uncorrectable error detector coupled to said first memory device designated primary and said second memory device designated backup;

a memory device designation switcher coupled to said uncorrectable error detector;

a switched memory device tester coupled to said first memory device designated primary and to said second memory device designated backup;

a tested-bad memory device page or part marker coupled to said switched memory device tester;

a memory device in-service placer coupled to said tested-bad memory device page or part marker;  
and

a tested-bad memory device notifier coupled to said switched memory device tester.

GUNNISON, MCKAY &  
HODGSON, L.L.P.  
Garden West Office Plaza  
1900 Garden Road, Suite 220  
Menlo Park, CA 94025  
(831) 655-0880  
Fax (831) 655-0888

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**AFTER FINAL EXPEDITED PROCEDURE**

21. (Cancelled)

22. (Cancelled)

23. (Previously Presented) The system of claim 20,  
wherein said operating system further comprises:

a boot-time memory device designator coupled to said  
first memory device designated primary and to said second  
memory device designated backup.

24. (Cancelled)

25. (Currently Amended) A program storage device  
readable by a machine, tangibly embodying a program of  
instructions executable by the machine to perform a method for  
providing redundancy and recovery for a first memory device  
designated primary by utilizing a second memory device  
designated backup, the method including:

copying contents of the primary memory device to the  
backup memory device at specified intervals;

detecting an uncorrectable error in data received  
from or sent to the first memory device designated  
primary;

switching the designation of the first memory device  
from primary to backup and the designation of the second  
memory device from backup to primary in response to said  
detecting;

testing the memory device now designated backup after  
said switching;

marking pages or parts of the memory device now  
designated backup as bad if said testing so indicates; and

notifying ~~the~~ control system that the memory device  
now designated backup is bad if said testing so indicates.

GUNNISON, MCKAY &  
HODGSON, L.L.P.  
Gordon Weir Office Plaza  
1900 Gordon Road, Suite 220  
Menlo Park, CA 94025  
(415) 655-0180  
Fax (415) 655-0115